

Howard Lan

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Citizenship: U.S.A.

Education	Rice University <i>Master of Computer Science (Data Science Specialization), 3.82 /4</i> • Coursework includes algorithms, machine learning, data visualization, oop programming, cloud computing, databases, computer systems, and more. TA for COMP 680: Statistics and Data Science. University of Texas at Austin <i>Bachelor of Science in Mathematics (Scientific Computation Specialization), 3.60 /4</i> • Coursework focused in statistics, applied math, scientific computing, and user experience. • Activities: intramural soccer, math club, texas advanced computing center volunteer.	Houston, TX Graduating May 2021 Austin, TX Aug 2014 – Dec 2018
Experience	Cirrus Logic <i>Data Science Intern (Product Engineering Team)</i> Semiconductor company that designs audio products for companies like Apple and Samsung. • Developed a web app (using R, Shiny framework), from conception to completion, to analyze silicon wafers and help engineers visually monitor false holds/false releases rates based on wafer bin limits. • Consulted with product engineers, database administrators, and statisticians to design UI. • Improved the speed of markov chain monte carlo algorithm greatly by using Rcpp and C++. • Wrote complex SQL queries to retrieve silicon wafer data from Oracle database. • Analyzed silicon wafer data using Python and Excel. SAS Institute <i>Software Developer Intern (Visual Analytics Team)</i> Analytics software company that provide a suite of software to help analyze, manage, and report data. • Fixed over 30 high priority UI defects and worked on features in SAS Visual Analytics working with JavaScript/TypeScript, HTML, CSS, jQuery, and OpenUI5. • Presented poster of summer work at intern expo to other interns and company leaders. • Participated in A/B testing to help improve product usability. • Collaborated with software developers, testers, managers, ux designers, and technical writers. University of Texas at Austin <i>Research Assistant (Linguistics Department)</i> Member of a research group that focused on analyzing mixed language documents. • Refactored Python code to improve maintainability. • Increased the time to process large corpora significantly by using Python multiprocessing. • Created visualizations and plots in R.	Austin, TX Summer 2018 Cary, NC Summer 2016 and 2017 Austin, TX Spring 2017
Skills	Languages: Python, R, Java, HTML, CSS, C++, SQL. Big Data Tools: Hadoop, Spark, Hive. Data Visualization: Python (Matplotlib, Plotly, Seaborn), R (ggplot, Plotly), Tableau. Database Management Systems: MySQL, Oracle, MongoDB.	
Summary	Current master's student at Rice who is passionate about mathematics and computer science. Looking for full time positions in data science and engineering starting June 2021.	